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PATENTS AND TRADEMARKS

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**Ju.I.Buchu, reg.№ 125****(54) METHOD OF RADIO COMMUNICATION IN WIRELESS LOCAL NETWORK**

**FIELD:** radio engineering. **SUBSTANCE:** invention is related to wireless local networks WLAN comprising assemblage of transceiving facilities capable of establishing intercommunication of type "operating in peer-to-peer" under control of network coordinator (so called ad hoc networks). Method includes assignment of one transceiving facility as provisional network coordinator, switching of the rest of transceiving facilities to mode of network client, orientation of antenna ray of transceiving facility of client fitted with antenna possessing controlled radiation pattern in direction of provisional network coordinator, transmission of information by transceiving facility-client to addressee by permission signal of provisional network coordinator. Method can also include determination of quality of communication between all transceiving facilities of network and storage of these data by each transceiving facility. On basis of stored data on communication quality transceiving facilities under transmission mode start transmission of information to any network addressee along path securing communication quality exceeding or equal to threshold value. Stored data on communication quality are periodically updated. **EFFECT:** increased range of WLAN transceiving facilities, enhanced quality and reliability of communication between WLAN subscribers, mobile subscribers included, raised rate of information transmission. 18 cl, 11 dwg